

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An integrated graphical user interface for a process control environment, the interface comprising:
~~interface graphics and separate functions for operations, maintenance configuration, simulation and management functions of a process plant,~~
a configuration environment including a plurality of graphical element objects; and
a runtime environment including a real-time interfacing functions for interface to two or more functional areas of a process plant, the functional areas including operations, maintenance, configuration, and simulation functions,
the real-time interface providing real-time display two or more real-time displays from a set of real-time displays, the set of real-time displays including than one of an operator display operations, a maintenance display, a configuration display, and a simulation display functions, and
each of the two or more real-time displays includes a same graphic element corresponding to a same graphical element object of the plurality of graphical element objects.

2. (Canceled)

3. (Canceled)

4. (Currently amended) The interface of claim 1, ~~further comprising wherein the two or more real-time displays include a display of at least one or more of the following functions:~~ a panel motor start/stop buttonbuttons, a status indicationindications, a chart recorder, an annunciator panelpanels, a subsystem interface, a maintenance request, a maintenance report, or a supervisory report interfaces and combinations thereof.

5. (Currently amended) The interface of claim 1, ~~further comprising wherein the interface supports an operator interface for performing one or more of the following functions:~~ alarm management, process parameter adjustment by entry of process parameters, zoom in viewing of portions of the process for enhanced detail viewing, or utilization of specialized applications related to the process.

6. (Currently amended) The interface of claim 1, wherein the interface can run in a dedicated mode and a non-dedicated [[modes]] mode, the dedicated mode comprising at least one of: a mode including a fixed display arrangement or a mode corresponding to controlled access.

7. (Canceled)

8. (Currently amended) The interface of claim 1, wherein the ~~interface~~ the same graphical element object is executable ~~can run~~ on one or more of a workstation, a laptop, a PDA (Personal Data Assistant), a display on multiple monitors,[[and]] or a smart phone.

9. (Canceled)

10. (Canceled)

11. (Currently amended) The interface of claim 1, wherein the interface supports multiple user interface devices including at least one of a rich client, a web browser, a handheld, or a smart phone.

12. (Currently amended) The interface of claim 1, wherein the interface supports one or more of: integrated voice and video; real-time data services; external data services; XML files; access to other service interfaces; composite structure process graphics; class-based control hierarchies; integration of control, alarming, and abnormal situation management and prevention; integrated batch operator interfaces; integrated advanced control operator interfaces; route management; efficiency calculations; optimizations; mass and energy balances; integration of third party applications; multiple data collection systems (DCS), or [[and]] combinations thereof.

13. (Currently amended) The interface of claim 1, wherein the ~~interface receives displays and other applications to be loaded into a runtime~~ environment further includes an instantiation process that binds, during runtime, the same graphical element object to a data source in the process control environment workspace.

14. (Currently amended) An integrated graphical interface providing integrated seamless-graphical displays for operation, maintenance, configuration, and simulation functions on multiple workstations of a control system, the interface comprising:

~~tracking functions for tracking which displays are used on which workstations in the system, and~~

~~the a real-time user interface providing real-time display two or more real-time displays of a set of real-time displays, the set of real-time displays including than one of an operations display, a maintenance display, a configuration display, and a simulation display;~~

~~a graphic element on each of the two or more real-time displays and corresponding to a same graphical element object bound to each of the two or more real-time displays and to a data source in the process plant,~~

~~the same graphical element object including an element binding and at least one of a visualization, an element parameter, an element property, an element action, or and element animation functions.~~

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Currently amended) A method, comprising machine readable medium having instructions stored thereon that, when executed, cause a machine to:

providing provide seamless an integrated graphical displays user interface for two or more functional areas of a process plant, the functional areas including operations, maintenance, configuration, and simulation; ~~functions on multiple workstations of a control system and~~

providing two or more real-time display displays from a set of real-time displays, the set of real-time displays including more than one of an operation display operations, a maintenance display, a configuration display, and a simulation display;

providing a set of graphical element objects, each graphical element object corresponding to a different data source in the process plant; and
including, on each of the two or more real-time displays, a particular graphic element corresponding to a same graphical element object of the set of graphical element objects
functions;

~~provide tracking functions for tracking which displays are used on which workstations in the system;~~

~~provide real-time interfacing functions for operation control and maintenance personnel.~~

20. (Currently amended) The method ~~machine-readable medium~~ of claim 19, further comprising:

providing a set of graphical display objects, each graphical display object including at least two graphical element objects from the set of graphical element objects; and

including, on each of the two or more real-time displays, a particular graphic display corresponding to a same graphical display object of the set of graphical display objects
~~having instructions stored thereon that, when executed, cause the machine to provide fully scalable graphics with abilities to rotate the graphics and make portions of the graphics transparent.~~

21. (New) The interface of claim 1, wherein the same graphical element object includes at least one of a visualization, a parameter or property, an action or animation, or a binding.

22. (New) The interface of claim 1, wherein the configuration environment further includes a plurality of graphical display objects, each graphical display object includes at least two graphical element objects, and each of the two or more real-time displays includes a graphic display corresponding to a graphical display object of the plurality of graphical display objects.

23. (New) The interface of claim 22, wherein the graphical display object further includes at least one of: a connector, an animation or action, a property, or a binding.

24. (New) The interface of claim 6, wherein the non-dedicated mode is for use by configuration personnel.

25. (New) The interface of claim 1, wherein the configuration environment further includes a graphical display editor for creating the plurality of graphical element objects and a graphic object database for storing the plurality of graphical element objects.

26. (New) The interface of claim 1, wherein the same graphical element object is included in at least one of: predictive control, predictive maintenance, or system level error detection in the process plant. [100]

27. (New) The integrated graphical interface of claim 14, further comprising a graphic display included on each of the two or more real-time displays, the graphic display corresponding to a graphical display object bound to each of the two or more real-time displays, the graphical display object including at least two graphical element objects, a display binding, a connector, and at least one of a display property, a display action, or a display animation.

28. (New) The integrated graphical interface of claim 14, further comprising a graphical display editor for creating a new graphical element object, a graphical database for storing a set of graphical element objects that includes the new graphical element object and the same graphical element object, and an instantiation process that binds the same graphical element object to the data source via the element binding.

29. (New) The integrated graphical interface of claim 14, wherein the real-time user interface is provided on at least one of: a workstation, a laptop, a PDA (Personal Data Assistant), a display across multiple monitors, a multi-screen workstation, a rich client, a web browser, a handheld, or a smart phone.